



foods



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Applications of Nuclear Magnetic Resonance (NMR), Mass Spectroscopy (MS), and GC-MS to Food Science

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Message from the Guest Editor

Dear Colleagues,

In the realm of food science, NMR and MS are indispensable tools for evaluating quality, detecting adulterants and identifying contaminants such as pesticides and mycotoxins. Their versatility and sensitivity make them invaluable for studying various aspects of food, including composition, safety and functionality, thereby significantly contributing to the enhancement of food products. Furthermore, NMR and MS are crucial for investigating the effects of preservation methods on food quality, monitoring reactions, identifying degradation products and assessing the impact of storage conditions. These techniques are instrumental and non-destructive tools in flavor and aroma analysis, enabling the identification and quantification of volatile compounds that influence sensory attributes. Moreover, they support metabolomics studies, facilitating the analysis of metabolic profiles in food samples to understand composition, biochemical pathways and health implications. Their multifaceted applications underscore their importance in food science and its various research areas.



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Message from the Editor-in-Chief

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